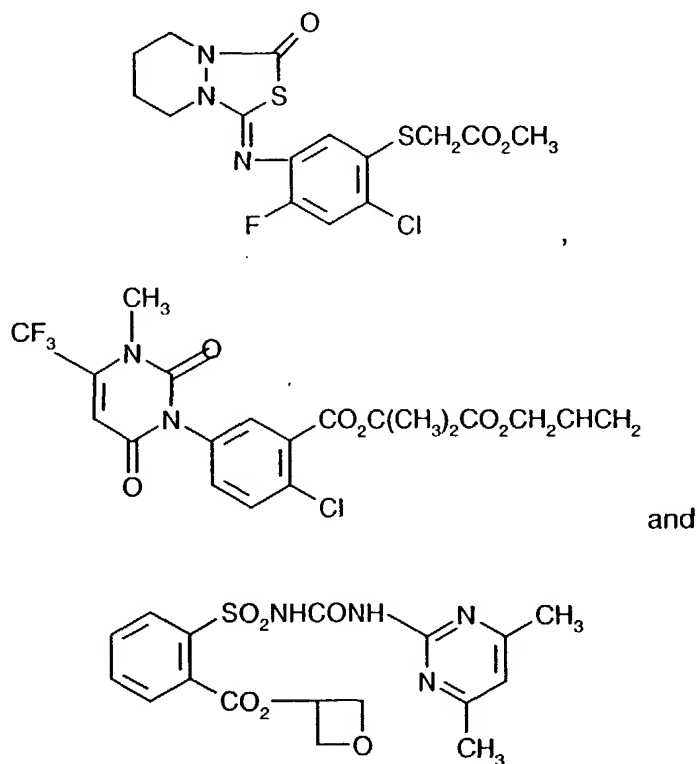


Patent Claims:

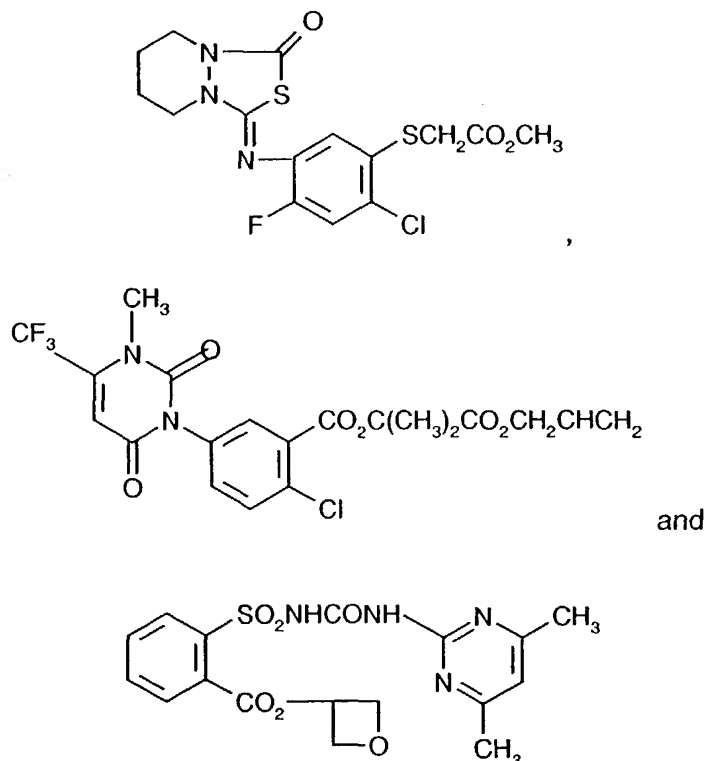
1. Process for the control of weeds in cultivations of useful plants which are resistant to a phospho-herbicide, characterised in that a herbicidally effective amount of a composition containing, in addition to the usual inert formulation assistants, a phospho-herbicide selected from the group comprising glufosinate and glyphosate, a synergistic amount of at least one further herbicide selected from the group comprising prosulfuron, primisulfuron, dicamba, pyridate, dimethenamide and its S-enantiomer, metolachlor and its S-enantiomer, fluometuron, propaquizafop, atrazine, clodinafop, norflurazone, ametryn, terbutylazine, simazine, prometryn, NOA-402989, as well as the compounds of formulae



is allowed to take effect on the cultivated plant or its habitat, with the provision that compositions containing glufosinate and metolachlor, glufosinate and atrazine, glufosinate and metolachlor and atrazine, as well as glufosinate and atrazine and dicamba are not used in glufosinate-resistant maize, and further that compositions containing glyphosate and atrazine are not used in glyphosate-resistant maize, and compositions containing glyphosate and metolachlor or glyphosate and dimethenamide are not used in glyphosate-resistant soya.

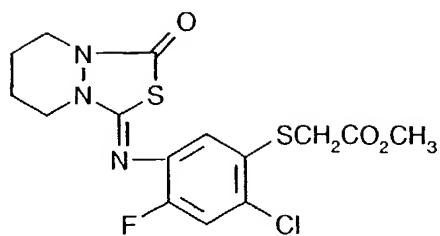
2. Process according to claim 1 for the control of weeds in cultivations of useful plants which are resistant to the herbicide glufosinate, characterised in that a herbicidally effective

amount of a composition containing, in addition to the usual inert formulation assistants, glufosinate and a synergistic amount of at least one further herbicide selected from the group comprising prosulfuron, primisulfuron, dicamba, pyridate, dimethenamide, metolachlor and its S-enantiomer, fluometuron, propaquizafop, atrazine, ametryn, terbutylazine, simazine, prometryn, as well as the compounds of formulae

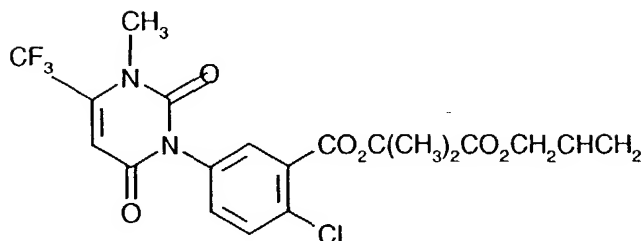


is allowed to take effect on the cultivated plant or its habitat.

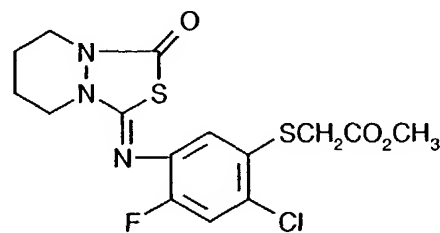
3. Process according to claim 1, characterised in that the useful plant being cultivated is maize which is resistant to glufosinate and/or glyphosate, and the composition contains glufosinate or glyphosate and a synergistic amount of at least one further herbicide selected from the group comprising prosulfuron, primisulfuron, dicamba, pyridate, dimethenamide as well as its S-enantiomer, metolachlor as well as its S-enantiomer, atrazine, NOA-402989, ametryn, terbutylazine, simazine, prometryn, as well as the compounds of formulae



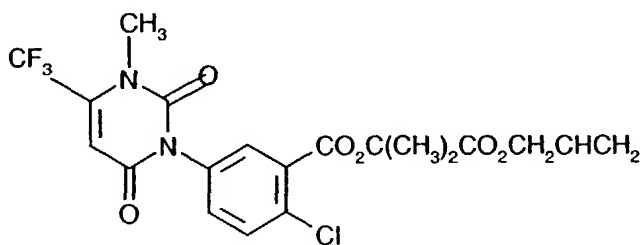
and



4. Process according to claim 3, characterised in that the useful plant being cultivated is maize which is resistant to glufosinate, and the composition contains glufosinate and a synergistic amount of at least one further herbicide selected from the group comprising prosulfuron, primisulfuron, dicamba, pyridate, dimethenamide, metolachlor as well as its S-enantiomer, atrazine, ametryn, terbutylazine, simazine, prometryn, as well as the compounds of formulae

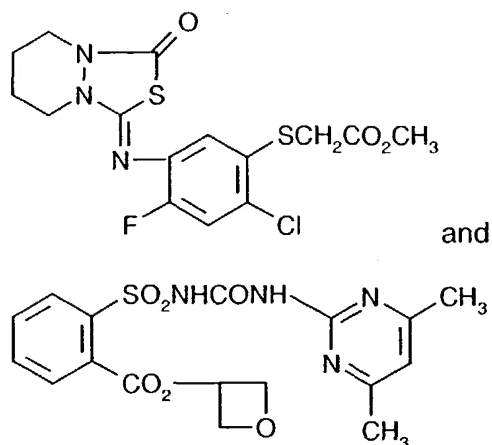


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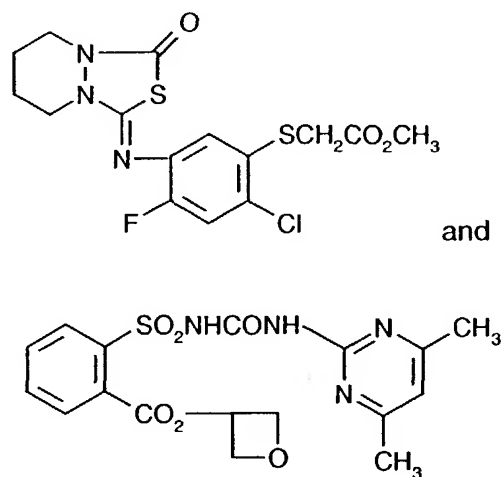


5. Process according to claim 1, characterised in that the useful plant being cultivated is soya which is resistant to glufosinate and/or glyphosate, and the composition contains glufosinate or glyphosate and a synergistic amount of at least one further herbicide selected

from the group comprising metolachlor as well as its *S*-enantiomer and the compounds of formula

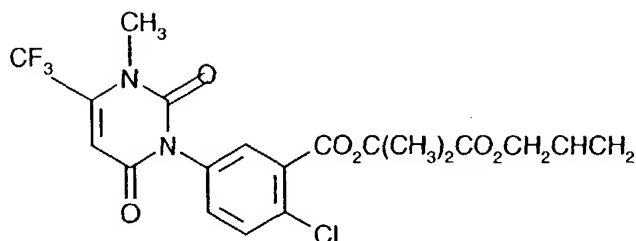
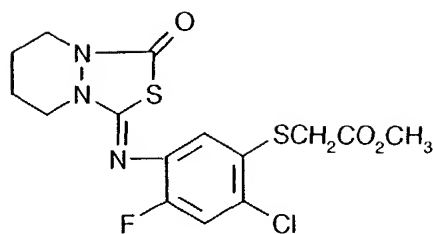


6. Process according to claim 5, characterised in that the useful plant being cultivated is soya which is resistant to glufosinate, and the composition contains glufosinate and a synergistic amount of at least one further herbicide selected from the group comprising metolachlor as well as its *S*-enantiomer and the compounds of formulae

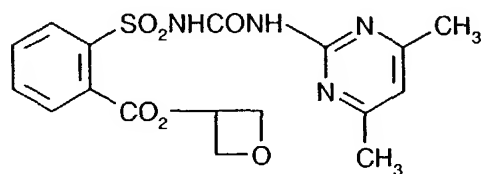


7. Process according to claim 1, characterised in that the useful plant being cultivated is cotton which is resistant to glufosinate and/or glyphosate, and the composition contains glufosinate or glyphosate and a synergistic amount of fluometuron.

8. Process according to claim 7, characterised in that the useful plant being cultivated is cotton which is resistant to glufosinate, and the composition contains glufosinate and a synergistic amount of fluometuron.
9. Process according to claim 1, characterised in that the useful plant being cultivated is rape or beet which are resistant to glufosinate and/or glyphosate, and the composition contains glufosinate or glyphosate and a synergistic amount of propaquizafop.
10. Process according to claim 9, characterised in that the useful plant being cultivated is rape or beet which are resistant to glufosinate, and the composition contains glufosinate and a synergistic amount of propaquizafop.
11. Process according to claim 1, characterised in that the useful plant being cultivated is sugar cane which is resistant to glufosinate and/or glyphosate, and the composition contains glufosinate or glyphosate and a synergistic amount of ametryn.
12. Process according to claim 1, characterised in that the useful plant being cultivated is sugar cane which is resistant to glufosinate, and the composition contains glufosinate and a synergistic amount of ametryn.
13. Process according to claim 1, characterised in that the useful plant cultivations are treated with the said composition at application rates corresponding to 0.3 to 4.0 kg total active ingredient per hectare.
14. Herbicidal composition for use in the process according to claim 1, characterised in that it contains a herbicidally effective amount of a composition containing, in addition to the usual inert formulation assistants, a phospho-herbicide selected from the group comprising glufosinate and glyphosate, a synergistic amount of at least one further herbicide selected from the group comprising prosulfuron, primisulfuron, dicamba, pyridate, dimethenamide and its S-enantiomer, metolachlor and its S-enantiomer, fluometuron, propaquizafop, atrazine, clodinafop, norflurazone, ametryn, terbutylazine, simazine, prometryn, NOA-402989, as well as the compounds of formulae

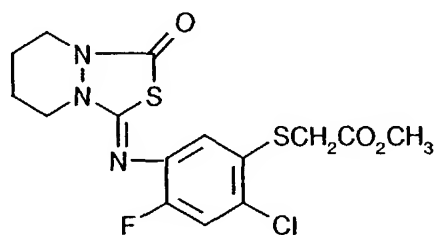


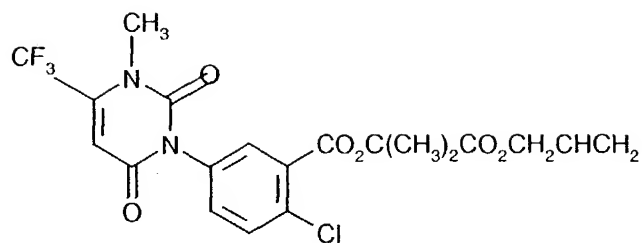
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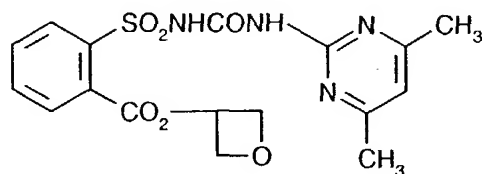
with the provision that compositions containing glufosinate and metolachlor, glufosinate and atrazine, glufosinate and metolachlor and atrazine, as well as glufosinate and atrazine and dicamba are not used in glufosinate-resistant maize, and further that compositions containing glyphosate and atrazine are not used in glyphosate-resistant maize, and compositions containing glyphosate and metalochlor or glyphosate and dimethenamide are not used in glyphosate-resistant soya.

15. Herbicidal composition, characterised in that it contains, in addition to the usual inert formulation assistants, glufosinate and a synergistic amount of at least one further herbicide selected from the group comprising prosulfuron, primisulfuron, pyridate, dimethenamide and its S-enantiomer, the S-enantiomer of metolachlor, fluometuron, propaquizafop, clodinafop, norflurazone, ametryn, terbutylazine, simazine, prometryn, NOA-402989, as well as the compounds of formulae

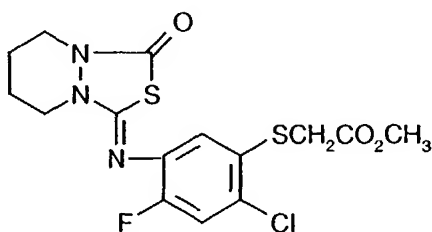




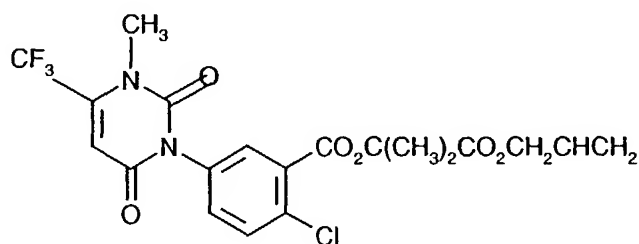
and



16. Herbicidal composition, characterised in that it contains, in addition to the usual inert formulation assistants, glyphosate and a synergistic amount of at least one further herbicide selected from the group comprising prosulfuron, primisulfuron, dicamba, pyridate, the S-enantiomer of dimethenamide, the S-enantiomer of metolachlor, fluometuron, propaquizafop, clodinafop, norflurazone, ametryn, terbutylazine, simazine, prometryn, NOA-402989, as well as the compounds of formulae



,



and

